

L 2099-66 EWP(e)/EWT(m)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) LJP(c) ID/EW
 UR/0226/65/000/009/0081/0090
 ACCESSION NR: AP5022547

AUTHOR: Grigor'yeva, V. V.; Savitskiy, K. V.; Zhdanova, V. N.; Kulikov, V. A.;
 Sergeyenkova, V. M.; Savitskiy, A. P.; Itin, V. I.; Kozlov, Yu. I.

TITLE: Resistance to deformation and stability of deformation-induced distortions
 of sintered powder alloys

SOURCE: Poroshkovaya metallurgiya, no. 9, 1965, 81-90

TOPIC TAGS: sintered nickel alloy, aluminum oxide containing alloy, dispersion
 strengthened alloy, alloy deformation resistance, deformation induced distortion,
 distortion stability, alloy microhardness

ABSTRACT: Compacts of powders of pure nickel and nickel with 1, 3, and 5% of
 α -Al₂O₃ or γ -Al₂O₃ were sintered at 1200-1400C in a hydrogen atmosphere and tested
 for compressive strength under compression at a rate of 0.15 mm/min with a reduc-
 tion of up to 30% at 20 and 500C. The stability of deformation-induced distortions
 was investigated by measurements of the microhardness of specimens vacuum annealed
 in the 200-1050C range. The room-temperature compressive strength of sintered
 nickel alloys with up to 5% Al₂O₃ was slightly higher than that of pure sintered
 nickel, and the difference was somewhat greater at 500C. At both test temperatures,

Card 1/3

L 2099-66

ACCESSION NR: AP5022547

the compressive strength was higher in alloys containing α - Al_2O_3 and slightly increased in all alloys as the Al_2O_3 concentration increased. The size of Al_2O_3 particles had practically no effect on the room-temperature compressive strength, but at 500C the compressive strength of alloys increased appreciably as the particle size of Al_2O_3 decreased from 2 to 1 μ . The type of Al_2O_3 modification had the most sharply pronounced effect on the compressive strength. For example, an alloy with 3% α - Al_2O_3 had a compressive strength of about 65 and 36 dan/mm^2 at 20 and 500C, respectively, compared with 58 and 28 dan/mm^2 , respectively, for an alloy with 3% γ - Al_2O_3 . Low-temperature annealing (at up to 300—400C) produced an equally slight increase in the hardness of both nickel and Ni- Al_2O_3 alloys deformed 30% at 20C. Annealing at temperatures higher than 400C decreased the hardness of sintered nickel and all Ni- Al_2O_3 alloys. However, the hardness of cold-deformed Ni- Al_2O_3 alloys after high-temperature annealing remained higher than that of identically treated sintered nickel. The hardness level of Ni- Al_2O_3 alloys increased with higher content and fineness of Al_2O_3 powder. The maximum softening of Ni and Ni- γ - Al_2O_3 alloys occurred at the same temperature, while the temperature of maximum softening of Ni- α - Al_2O_3 alloys was about 100C higher. The higher temperature stability of the deformation-induced distortions and a higher compressive

Card 2/3

L 2099-66

ACCESSION NR: AP5022547

strength at room and elevated temperatures favor the use of sintered Ni-a Al_2O_3 alloys. Orig. art. has: 8 figures and 5 formulas. [MS]

ASSOCIATION: Institut problem materialovedeniya AN UkrSSR (Institute of Problems of the Science of Materials, AN UkrSSR; Sibirskiy fiziko-tehnicheskiy institut im. V. D. Kuznetsova (Siberian Physicotechnical Institute)

SUBMITTED: 02Feb65

ENCL: 00

SUB CODE: MM

NO REF SOV: 006

OTHER: 014

ATD PRESS: 4/13

Card 3/3

ALMAYEV, T.M.; SERGEYENKO, V.S., ~~otv.~~ za vypusk; ZUKHIN, Yu.I.,
tekhn. red.

[National economy of the Kirghiz S.S.R. in 1961;
statistical yearbook] Narodnoe khoziaistvo Kirgizskoi SSR
v 1961 godu; statisticheskii ezhegodnik. Frunze, Gosstat-
izdat, Kirgizskoe otd-nie, 1962. 231 p. (MIRA 16:7)

1. Zamestitel' nachal'nika Tsentral'nogo statisticheskogo
upravleniya pri Sovete Ministrov Kirgizskoy SSR (for Almayev).
(Kirghizistan--Statistics--Yearbooks)

SERGEYENKO, V. Ya.

Distr: 4E2c

18
Production of high-purity lead. Va. Z. Malkin, V. Ya. Sergeyenko, and I. G. Yudelevich (Lead Plant, Chumkent). Izv. Akad. Nauk SSSR, No. 5, 44-51 (1957).—High-purity Pb, contg. Cu 1×10^{-4} – $3 \times 10^{-4}\%$ and Ag 2×10^{-4} – $2 \times 10^{-4}\%$, was made by double electrolytic refining followed by fire refining. In fire refining, Pb was melted in iron kettles of 1.2 metric ton capacity, heated to 430–500°, and skimmed. About 1% by wt. of pure com. Zn was added to remove Ag. The dross was skimmed, and the melt was put through 3 cycles of cooling to 330°, reheating to 380°, and skimming. To the Zn-bearing Pb were made 2–3 addns. of 0.05–0.07% by wt. S each. Each addn. was followed by heating to 400°, cooling to 330°, skimming the surface, and cleaning the kettle walls. Then, 0.6–0.7% by wt. of NaOH and 0.03–1.0% by wt. of saltpeter were added, the skim was removed, and the melt was blown with O for 30 min. at 500°. The fire-refining cycle was about 21 hrs., and the yield of Pb was 90%. When the 2nd electrolysis was omitted, the product had the same purity, but Pb recovery was 85% and Zn consumption was 1.6%. On the other hand, double electrolysis alone without fire refining gave a product contg. Ag 1.5×10^{-4} – $2 \times 10^{-4}\%$ and Cu 3×10^{-4} – $6 \times 10^{-4}\%$. More Ag and Cu were removed by simultaneous than by separate use of Zn and S. A method of rapid spectrographic detn. of Ag and Cu in Pb was given. The authors conclude that under com. conditions fire refining yields a purer product and is more reliable than double electrolysis, even with the use of purified electrolyte and diaphragm-type cells. E. M. Smith

LEVCHENKO, V.V., doktor khim.nauk, prof.; IVANTSOVA, M.A.; SOLOV'YEV,
N.G.; FEL'DT, V.V.; BALEZIN, S.A., doktor khim.nauk, prof.,
red.; SERGEYENKOV, A.A., red.; MAKHOVA, N.N., tekhn.red.

[Chemistry; textbook for grades 8-10 of secondary schools]
Khimiia; uchebnik dlia VIII-X klassov srednei shkoly. Pod red.
S.A.Balezina. Izd.3. Moskva, Gos.uchebno-pedagog.izd-vo M-va
prosv.RSFSR, 1950. 455 p. (MIRA 14:7)
(Chemistry)

SERGEYENKOV, A.A.

Moscow municipal "Pedagogical lectures". Khim. v shkole 10 no.4:78-80
Jl-Ag '55. (MIRA 8:9)

(Moscow--Chemistry--Study and teaching)

SERGEYENKOV, A.A.

Findings on examinations for admission to higher schools in
1955. Khim. v shkole 11 no.1:77-80 Ja-F '56. (MLRA 9:2)
(Chemistry--Examinations, questions, etc.)

SERGEYENKOV, A.A.

~~_____~~
Municipal "pedagogical lectures." Khim.v shkole 12 no.4:79-80
J1-Ag '57. (MLBA 10:8)
(Chemistry--Study and teaching)

SERGEYENKOV, A.A., red.

[Program of chemistry for soviet-party schools] Programma po
khimii dlia sovetsko-partiinykh shkol. Moskva, 1958. 15 p.
(MIRA 12:3)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya
partiynaya shkola.

(Chemistry)

KIRYUSHKIN, Dmitriy Maksimovich; SERGEYENKOV, A.A., red.; NATAPOV, M.I.,
tekhn. red.

[Methods of teaching chemistry in secondary schools; manual for
teachers] Metodika prepodavaniia khimii v srednei shkole; posobie
dlia uchitelei. Izd.2., perer. Moskva, Gos. uchebno-pedagog. izd-
vo M-va prosv. RSFSR, 1958. 610 p. (MIRA 11:9)
(Chemistry—Study and teaching)

SERGEYENKOV, A.A. (g.Moskva)

Come to live with us in Siberia! ("In the taiga near Lake Baikal"
by A.Smirnov. Reviewed by A.A.Sergeenkov). Biol.v shkole no.3:95
My-Je '59. (MIRA 12:9)
(Baikal region--Botany, Medical--Study and teaching)
(Smirnov, A.)

SERGEYENKOV, A.A.

Good aid for schools. Khim.v shkole 14 no.4:86-87 J1-Ag '59.
(MIRA 12:11)

(Chemistry, Technical--Audio-visual aids)

SERGEYENKOV, A.A.

Talks on chemistry ("Journey into the world of chemistry" by
Z. Spausus. Reviewed by A.A. Sergeenkov). Khim. v shkole 15
no.3 My-Je '60. (MIRA 14:7)
(Chemistry--Juvenile literature)
(Spausus, Z.)

SERGEYENKOV, A.A.

Equality sign in chemical equations. Khim. v shkole 15 no.6:
45-49 N-D '60. (MIRA 13:11)
(Chemical equations)

SERGEYENKOV, A.A.; MAKSIMOVA, V.V., red.; KOZLOVSKAYA, M.D., tekhn.red.

[Chemistry in school and in life] Khimiia v shkole i v zhizni;
sbornik statei ob opyte raboty uchitelei po soedineniiu obu-
cheniia s proizvoditel'nyim trudom uchashchikhsia. Moskva, Gos.
uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1961. 173 p.

(MIRA 15:2)

(Chemistry--Study and teaching)

SERGEYENKOV, A.A. _____

Motion picture about lime. Khim. v shkole 16 no.1:68-69 Ja-F
'61. (MIRA 14:1)

(Lime)

SERGEYENKOV, A.A.

R.S.F.S.R. "Pedagogical readings" of 1961. Khim. v shkole 16
no. 3:93-94 My-Je '61. (MIRA 14:5)
(Chemistry—Study and teaching)

SERGEYENKOV, A.A.

Motion picture on mineral fertilizers. Khim. v shkole 16
no.5:92-93 S-0 '61. (MIRA 14:9)
(Motion pictures in education)
(Fertilizers and manures)

SERGEYENKOV, A.A.

Chemistry teachers about their work. Khim.v shkole 18 no.2:
88-89 Mr-Ap '63. (MIRA 16:4)
(Chemistry--Study and teachers)

OKUN'S.S., kand. tekhn. nauk, dotsent; SERGEYENKOV, B.N., assistant

Smoothly regulated magnetized transformers and stabilizers
with voltage redistribution. Trudy MEI no.38:178-198 '62.
(MIRA 17:2)

ACC NR: AP60217⁸77

SOURCE CODE: UR/0413/66/000/012/0050/0050

INVENTORS: Okun', S. S.; Sergayenkov, B. N.; Kiselev, V. M.

ORG: none

TITLE: Transformer-transistorized voltage regulator-stabilizer. Class 21, No. 182772

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 50

TOPIC TAGS: voltage regulator, voltage stabilizer, transistorized circuit

ABSTRACT: This Author Certificate presents a transformer-transistorized voltage regulator-stabilizer containing a regulating unit, a controlling unit of transistors or controllable rectifiers, and a pulse width modulation circuit. To produce an efficient, small time lag stabilizer and to insure the independence of the form of the output voltage curve on the magnitude and characteristics of the load, the regulating unit is in the form of two series connected autotransformers (transformers) (see Fig. 1). The optimal transformer coefficient is obtained by connecting electronic switches in the tertiary windings of the autotransformers.

Card 1/2

UDC: 621.316.722.1:621.314.2:621.382.3

PETROV, G.N., doktor tekhn. nauk, prof.; OKUN', S.S., kand. tekhn.
nauk, dotsent; SERGEYENKOV, B.N., inzh.

Theoretical principles of the design of electric transformers
with even noncontact voltage regulation. Trudy MEI no.39:39-
54 '62.
(MIRA 17:6)

SERGEYENKOV, B.M., inzh.

Networks and designs of three-phase contactless transformer-type
voltage regulators. Vest. elektroprom. 34 no.8:30-34 Ag '63.
(MIRA 16:9)

(Magnetic amplifiers) (Electric transformers)

ZUL', N.M., kand.tekhn.nauk; OKUN', S.S., kand.tekhn.nauk;
SERGEYENKOV, B.N., inzh.; TSAGAREYSHVILI, S.A., inzh.

Smoothly regulated booster autotransformer for rural power
distribution networks. Elektrotehnika 35 no.3:25-27 Mr '64.
(MIRA 17:5)

34174
S/048/62/026/002/015/032
B106/B108

Automatic prism β -spectrometer

locks. The magnetic lenses are fed from a d.c. stabilizer pile consisting of a rectifier (2 kv), a 6Y-80 (GU-80) control tube, a calibration resistor R_3 , a battery for reference voltage U_{ref} and a d.c. amplifier. The motor AB keeps the potentiometer drum rotating. Current in the lenses is stabilized for 1 hr with an accuracy of 0.002% in the range of 20-1100 ma. The magnetic field of the prism is stabilized by a compensation method. The turns of the electromagnet are supplied with d.c. from a rectifier (1.5 kv) via a control tube 6Y-13 (GU-13). A solenoid C is mounted in the air gap of the electromagnet, which produces a reference magnetic field opposed to the main field of the prism. Inside the solenoid is a magnetic modulating pickup AD for the magnetic field strength. MF is a magnetometer. Thus compensation of the reference field by the field of the magnet with an accuracy up to 10^{-4} oe is achieved. The spectra are measured automatically in the β -spectrometer. CPV is a system for the automatic control of the device, which permits continuous measurement of the spectrum during a time Δt over a given interval ΔH_0 . ПС-10000 (PS-10000) is a standard transmission circuit recording automatically the number of the pulses. ЗПЧ-09 (EPP-09) is an electronic potentiometer on the recording strip of which the pulses accumulated in

Card 2/4 3

L-57722-65 EPF(c)/EPR/ENG(j)/ENP(k)/ENP(z)/EIA(c)/EST(m) EWP(b)/T/EIA(d)/
 ACCESSION NR: AR5015162 EWP(e)/EWP(t) PI-L/ UR/0137/65/000/005/G034/G034
 Pr-L/PS-L/P2G IJP(c) JD/HW

SOURCE: Ref. zh. Metallurgiya, Abs. 50201

AUTHOR: Grigor'yeva, V. V.; Sergeevskaya, V. M.

TITLE: Hardening of metals with oxides

CITED SOURCE: Tr. 7 Vses. nauchno-tekhn. konferentsii po poroshk. metallurgii.
 Yerevan, 1964, 220-224.

TOPIC TAGS: hardening method, metal hardness, oxide, ²¹nickel, ²¹powder metal,
 aluminum oxide, aluminum hydroxide, nickel oxide, microstructure, inclusion

TRANSLATION: The properties of nickel hardened with dispersed inclusions of Al_2O_3 were investigated. The inclusions of Al_2O_3 were introduced into nickel powder by mechanical mixing of the powder and precipitation of aluminum hydroxide. Mechanical mixing of nickel powder with a particle size of 40 microns with Al_2O_3 powder was carried out for 50 hrs. The mixtures were dried at 120-170° and reduced in a hydrogen atmosphere at 400° for 6 hrs. The aluminum hydroxide precipitated nickel oxide in the powder. The mixture was also dried and reduced. The mixtures obtained contained 1, 3, 5 and 10% Al_2O_3 . Pressed briquets were

Card 1/2

L-57722-65

ACCESSION NR: AR5015162

sintered in a vacuum for 1 hr at 1200-1400° and worked at 1000° with a reduction of 85%. With the mechanical method of introduction, the Al_2O_3 inclusions were present in the samples in the form of the alpha modification, while with precipitation of aluminum hydroxide, they were present in the form of the gamma modification. During the sintering period the size of the Al_2O_3 particles increased. Under hot working with pressure, pulverization of the dispersed particles took place. In sintered samples, the Al_2O_3 particles were located at the boundaries of the nickel grains. In pressure working, redistribution of the oxide particles took place. An increase in the content of Al_2O_3 inclusions was accompanied by almost no increase in hardness of the alloy. Alloys with high mechanical properties were obtained from mechanical mixtures of nickel powders and $NiO \cdot Al_2O_3$ spinels, after sintering at 1300°. In this case, no change took place in the particle size of the Al_2O_3 particles in the sintering process. V. Shelamov.

SUB CODE: MM

ENCL: 00

Card 2/2

CC ACCESSION NR: AP4015269

8/0226/64/000/001/0077/0080

AUTHOR: Grigor'yeva, V. V.; Dubinin, V. P.; Sergeyenkova, V. M.; Osasyuk, V. V.

TITLE: Rupture strength of a hard chromium carbide alloy

SOURCE: Poroshkovaya metallurgiya, no. 1, 1964, 77-80

TOPIC TAGS: cermet, cermet rupture strength, chromium carbide alloy, chromium carbide nickel cermet, refractory alloy, refractory cermet, chromium carbide, alloy rupture strength

ABSTRACT: Cermet specimens (Fig. 1 of Enclosure) containing 85% chromium carbide and 15% nickel were compacted from powders and sintered in hydrogen at 1573K, then subjected to stress rupture tests at 1073 and 1173K for 100 hours. Results plotted graphically (Fig. 2 of Enclosure) are compared with data for the heat-resistant alloy EI437B and indicate a substantial difference in rupture strength of the two materials at 1073K, which decreases as the temperature is increased to 1173K. Orig. art. has: 3 figures and 1 table.

Cord 3/4

ACCESSION NR: AP4015269

ENCLOSURE: 01

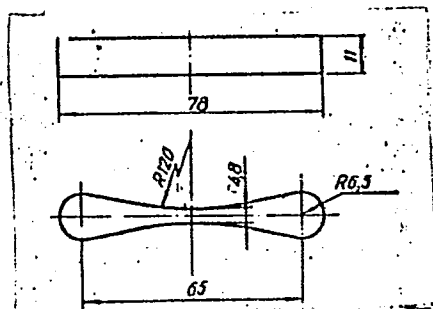


Figure 1. Specimen for stress rupture test.

3/4

L 23068-66 EWT(m)/T/EWP(t)/EWP(k) IJP(c) JD/HW/JH

ACC NR: AP6011348

SOURCE CODE: UR/0226/66/000/003/0071/0074

AUTHOR: Sergeyenkova, V. M.

ORG: Institute of the Problems of Material Science, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Preventing the growth of dispersed particles in nickel

SOURCE: Poroshkovaya metallurgiya, no. 3, 1966, 71-74

TOPIC TAGS: nickel, nickel alloy, aluminum oxide containing alloy, dispersion strengthened alloy, nickel dispersion strengthening

ABSTRACT: The feasibility of ~~eliminating or suppressing~~ the growth of aluminum-oxide particles in dispersion-strengthened nickel has been investigated. Cylindrical specimens 25 mm in diameter and 35 mm high were compacted from a mixture of nickel powder with up to 10% aluminum-oxide powder. The particles of the latter were smaller than 1 μ of which 90% were smaller than 0.5 μ . The green compacts were rapidly heated (0.1 sec) to 1273 K to prevent oxidation and extruded with 85% reduction. The density of extruded specimens varied from 100% of the theoretical for pure nickel to 95% of the theoretical for alloy containing 10% aluminum oxide. The size of aluminum-oxide particles and their uniform distribution remained unchanged. On the contrary, in the specimens which were sintered after compacting, the size of the aluminum-oxide particles increased from 1 to 15 μ and the particles were accumulated

Card 1/2

L 23068-66

ACC NR: AP6011348

mainly at the nickel grain boundaries. Extrusion of sintered specimens reduced somewhat the size of the particles and changed their distribution, but the majority of the particles remained at grain boundaries. The structure produced by extrusion of green compacts was found to be very stable; the growth of Al_2O_3 particles begins at 1573 K. This method makes it possible to produce dispersion-strengthened nickel with finely dispersed aluminum and also simplifies the production. Orig. art. has: 1 figure and 3 tables. [WW]

SUB CODE: 11/ SUBM DATE: 11Nov65/ ORIG REF: 001/ OTH REF: 005/ ATD PRESS:

4234

Card 2/2 *44*

SVOYATITSKAYA, S.T. [Svoiatyts'ka, S.T.]; SERGEYENKOVA, P.M. [Serhiienkova, P.M.]; GALUSHKINA, I.M. [Halushkina, I.M.]; FEDOTOVA, V.O.; NOSOV, M.P.; SUFIK, B.I.; PEREDERIY, A.T.; PRIKHOD'KOV, V.F.,
otv. za vypusk; DEMERDZHI, D.L., red.; GLUSHKO, G.I. [Hlushko, H.I.],
tekhn.red.

[Economy of Dnepropetrovsk Province; statistical collection] Narodne hospodarstvo Dnipropetrovs'koi oblasti; statystychnyi zbirnyk. Dnipropetrovs'k, Dnipropetrovs'ke knyzhkove vyd-vo, 1960. 221 p.
(MIRA 13:12)

1. Dnepropetrovsk (Province) Statisticheskoye upravleniye.
 2. Dnepropetrovskoye oblastnoye statisticheskoye upravleniye (for Svoiatitskaya, Sergeyenkova, Galushkina, Fedotova, Nosov, Sufik, Perederiy).
 3. Nachal'nik Dnepropetrovskogo oblastnogo statisticheskogo upravleniya (for Prikhod'ko).
- (Dnepropetrovsk Province--Statistics)

SERGEYEV, (fnu)

"Role of international cooperation in the acceleration of
economic and social progress in less developed countries"

report. to be submitted for the United Nations Conference on the
Application of Science and Technology for the Benefit of the Less
Developed Areas - Geneva, Switzerland, 4-20 Feb 63.

SERGEYEV, A.

We guard Tashkent. Pozh. delo 5 no.6:10-12 Je '59.

(MIRA 12:8)

1. Nachal'nik pozharnogo otryada, Tashkent.
(Tashkent--Fire prevention)

SERGEYEV, A.

Let's utilize every possibility for advance fulfillment of
the plan for 1956. Sel'.stroitel' no.3: 5-7 Mr '56.

(MIRA 9:7)

1. Nachal'nik Krasnoyarskogo krayevogo upravleniya po stroitel'stvu v kolkhosakh.

(Krasnoyarsk Territory --Building)

SERGEYEV, A. (Ivanovo)

The initiative of artels is supported. Prom. koop. 12 no.6:34
Je '58. (MIRA 11:6)

1.Zamestitel' predsedatelya pravleniya oblpromsoveta.
(Construction industry)

SERGEYEV, A.

DYGAS, M.; SERGEYEV, A.

Rapid handling of ships in the Port of Kiev. Mor.1 rech.flot 14
no.3:4-7 Mr '54. (MLRA 7:5)

1. Zamestitel' nachal'nika Kiyevskogo porta (for Dygas). 2. Nachal'-
nik OTZ (for Sergeyev).
(Kiev--Loading and unloading) (Loading and unloading--Kiev)

SERGEYEV, A.

Heroic weekdays of Cuba ("Touring the roads of the new Cuba" by
V. Listov. Reviewed by A. Sergeev). Sov. profsoiuzy 17 no.1:57
Ja '61. (MIRA 14:1)
(Cuba—Labor and laboring classes)
(Russia—Relations (General) with Cuba)
(Listov, V.)

SERGEYEV, A.

Attract more agricultural workers into socialist competition.
Sov. profsoiuzy 17 no. 3:12-15 F '61. (MIRA 14:2)
(Trade unions) (Socialist competition) (Agriculture)

SERGEYEV, A.

Combat comrade. Pozh.delo 8 no.8:22 Ag '62.
(Firemen)

(MIRA 15:8)

SMIRNOV, K.L.; AKATOV, V.A., prof., doktor veterin. nauk; KAYRYUKSHTENE, V.
[Kairiukstiene, V.]; SERGEYEV, A.; KHOPIN, A.; NIKIFOROV, V.;
SHTUYKIS, V. [Stuikis, V.]

Information and news. Veterinariia 38 no.4:90-96 Ap '61
(MIRA 18:1)

1. Uchenyy sekretar' Litovskogo nauchno-issledovatel'skogo insti-
tuta veterinarii (for Shtuykis).

SERGEYEV, A., inzh.

Buildings constructed by a method of lifting stories and roofs.
Zhil. stroi. no.6:31 '65. (MIRA 18:10)

SERGEYEV, A. (g.Kishinev); BAKHMACH, Z.; GRUZDIS, A.; LYAKHOVETSKIY, M.;
MEYLAKH, M.; ANIKIN, I. (g.Novorossiysk)

Facts, events, and people. Kryl.rod. 12 no.2:14-15 F '61.

(MIRA 14:6)

(Aeronautics)

SERGEYEV, A.

Generalize experience and expand with greater activity the
competition for communist labor. TSvet. met. 35 no.6:1-10 Je
162. (MIRA 15:6)

(Nonferrous metal industries)

SERGEYEV, A., instruktor

Profit potentials. Sov.shakht. 10 no.10:23 0 '61.

(MIRA 14:12)

1. Promyshlenny otdel Shakhtinskogo gorkoma Kommunisticheskoy
partii Sovetskogo Soyuza.

(Donets Basin--Coal mines and mining--Costs)

SERGEYEV, A.

Nationwide movement. Sov.shakht. 11 no.1:12-14 Ja '62.
(MIRA 14:12)
(Coal miners)

SERGEYEV, A. (poselok Korablino Ryazanskoy oblasti)

It is too early to consider the matter closed... Sov. profsoiuzy
19 no.10:21 My '63. (MIRA 16:7)
(Ryazan Province--Collective labor agreements--Geological surveys)

ZIMIN, V.; GOLUBEV, N. (Manturovo, Kostromskaya oblast'); SERGEYEV, A. (Leningrad); DUSHIN, F.; SOLOV'YEV, P.; NIKIFOROV, M., shofer (Satka, Chelyabinskaya oblast'); BABICH, V.

Readers' letters. Pozh.delo 9 no.5:31 My '63. (MIRA 16:5)

1. Pomoshchnik nachal'nika pozharnoy komandy, pos.Iul'tin (for Zimin). 2. Obshchestvennyy pozharnyy inspektor sovkhoza Vyaznikovskiy, Vladimirskoy obl. (for Dushin). 3. Predsedatel' rayonnogo soveta Dobrovol'nogo pozharnogo obshchestva, Chelyabinsk (for Solov'yev). 4. Uchastkovyy pozharnyy instruktor Yuzhnoy zheleznoy dorogi (for Babich).

(Fire prevention)

VAKULOV, N., inzh.; SERGEYEV, A., inzh.

Maintenance of the motorship "Mamadysh." Rech. transp. 22 no.8:30
Ag '63. (MIRA 16:10)

1. Upravleniye Volzhskogo ob'yedinennogo rechnogo parokhodstva.
(Ships--Maintenance and repair)

KOVCHIN, S.A., kand.tekhn.nauk; SERGEYEV, A., kand.tekhn.nauk

Remarks concerning A.S.Sergeev's article "Conversion of the structural
networks of multistage systems with transverse parallel excitation."
Izv.vys.ucheb.zav.; elektromekh. 5 no.1:113 '62. (MIRA 15:2)
(Automatic control) (Electric networks) (Sergeev, A.S.)

ZINOV'YEV, I., vtoroy pilot; PETUKHOV, A., vtoroy pilot; PORTYKO, G.,
vtoroy pilot; BELYAKOV, P., vtoroy pilot; SENCHA, G., vtoroy
pilot; SMIRNOV, L., vtoroy pilot; SERGEYEV, A., vtoroy pilot;
KUZNETSOV, L., vtoroy pilot

When sealing becomes a problem.... Grazhd.av. 17 no.6:
20-21 Je '60. (MIRA 13:7)

1. Dal'nevostochnoye upravleniye Grazhdanskogo vozdušnogo
flota (for all except Sergeyev, Kuznetsov). 2. Severnoye uprav-
leniye Grazhdanskogo vozdušnogo flota (for Sergeyev, Kuznetsov).
(Aeronautics, Commercial--Freight)

SERGEYEV, A., inzh.

On the road to Mars. Grazhd.av. 20 no.2:4 F '63.
(Space flight to Mars)

(MIRA 16'3)

The biosphere of a spaceship cabin

S/025/62/000/005/001/001
D408/0301

ble variation being as follows: protein 8.7-38.2%; fats 4.5-85.6%; carbohydrates 5.7-37.5%. For a balanced diet, however, animal products would also be needed. These animals would have to be sturdy (to survive the stresses of space flight), low oxygen consumers with a low carbon dioxide output, fast maturing, high meat yielders and capable of feeding on plants and animal waste. The best choice would probably be rabbits and poultry, especially since these lend themselves to automatic "forced" feeding. Plankton would be a valuable additional source of food; dried plankton would yield 7% fat; 59% protein, 20% carbohydrate and 14% ash and chitin. The spaceship of the future will probably also carry fish. Research is now in progress on the best varieties of fish and considerable attention is being paid to labyrinthine species which grow to a large size, are good breeders and draw their oxygen direct from the surrounding air outside the tank. Some scientists also recommend goldfish for the purpose.

Card 2/2

SERGEYEV, A.

Strengthen the material base of society. Voen. znaniya. 40 no. 7:
30 Jan '64 (MIRA 1728)

1. Predstavitel' Moskovskogo gorodskogo komiteta Vsesoyuznogo
Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.

SERGEYEV, A.

Widening the competition for communist labor. Mias. ind.
SSSR 34 no.5:1-6 '63. (MIRA 16:11)

1. Vsesoyuznyy tsentral'nyy sovet professional'nykh soyuzov.

KOSHKIN, K.; KATSIGRAS, G.; SERGEYEV, A.; YAKUBOV, Kh.

Assembly of the reductor and front axle by the selective trial-and-error method. Avt.transp. 41 no.11:26-30 N '63. (MIRA 16:12)

KOSHKIN, K.; KATSIGRAS, G.; SERGEYEV, A.; YAKUBOV, Kh.

Using the matching method in assembling the engine and gearbox.
Avt. transp. 41 no.9:24-29 S '63. (MIRA 16:10)

SERGEYEV, A.

Standard-bearers of the communist movement. Neftianik 8
no.6:1-3 Je '63. (MIRA 16:11)

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										27																									
CA Soap from glycerol refuse. S. LIBERMAN AND A. SERGEEV. <i>Masloboino Zhiroroe Delo</i> 1929, No. 8, 16-8.—The glycerol refuse which results after neutralization and filtration of the soap lye contains about 43% fatty acids. L. and S. prepd. from this refuse a standard soap on a semi-commercial scale by the following treatment: Equal parts of the glycerol refuse and H₂O are heated to boiling and the calcd. amount of strong Na₂CO₃ or NaOH soln. (32-38° B_E) is added in portions. The soap lye thus prepd. is salted out twice with 12 and 5% salt. The product has high detergent and lather-forming properties. The fatty acids have a neutralization number of 204.1 to 206.0 and an I no. of 79.9 to 71.9. E. BIRLOUSE																																																			
A30-SLA METALLURGICAL LITERATURE CLASSIFICATION																										E2																									
120MI 17183174																										120MI 206107																									
120MI 17183174																										120MI 206107																									

21

Hydrogenating fish oils and marine animal oils. A. Sergeev, *Moskovoia Zhivoe Delo* 1935, 70-81.--Oils from white sturgeon and other fish, and from whales and sperm whales, were hydrogenated to produce com. greases or refined edible fats. Tabulated results show m. ps. of the products for different values of hydrogenation time, temp. and H₂ consumption. The edible fats provide vitamin A, fat-sol. vitamin E and assimilable I.

Julian F. Smith

AS - SEA METALLURGICAL LITERATURE CLASSIFICATION

27

19

NEW METHOD OF REFINING FISH AND AQUATIC ANIMAL FATS.
A. Sergeev. *Maslobolno Zhirnoe Delo* 11, 551 3(1935).
A novel feature of the usual procedure consists in the pptn.
of albuminous and mucilaginous substances with 0.5%
oak-bark ext. Chas. Blanc

AS - 554 METALLURGICAL LITERATURE CLASSIFICATION

SERGEYEV, A., kandidat tekhnicheskikh nauk; IRODOV, M.V., kandidat tekhnicheskikh nauk; ARTOMONOV, P.A., kandidat khimicheskikh nauk; NEVOLIN, F.V., kandidat tekhnicheskikh nauk; GRAUERMAN, L.F. I.A., kandidat tekhnicheskikh nauk; BODYAZHINA, Z.I., kandidat tekhnicheskikh nauk.

"Technology of processing fats." B.N.Tiutiunnikov, P.V.Naumenko, I.M.Tovbin, G.G.Faniev. Reviewed by A.Sergeev, M.V.Irodov et al. Masl.-zhir.prom. 19 no.6:31-32 '54. (MLRA 7:10)
(Oils and fats) (Tiutiunnikov, B.N.) (Naumenko, P.V.)

SERGEYEV, A. (Kishinev)

There is someone you can learn from . Grazhd. av. 17 no: 11:20-21
N '60. (MIRA 13:12)

(Moldavia--Helicopters)

SERGEYEV, A. and KAIRYUKSHTENE, V.

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Improving the repairing of oil pumps. Avt.transp. 40 no.4:
25-27 Ap '62. (MIRA 15:4)
(Oil hydraulic machinery--Maintenance and repair)

SERGEYEV, A., inzh.

Causes for and elimination of crankshaft unbalance. Avt.transp.
40 no.4:28-30 Ap '62. (MIRA 15:4)
(Balancing of machinery)

SERGEYEV, A., inzh.

Balancing of motor-vehicle engines. Avt. transp. 42 no.11:
27-29 N '64. (MIRA 17:12)

A. I. ZHIGALOV

"The effect the source and amount of proteins and vitamins have on the quality of eggs and the productivity of ducks," Authors: A. A. Sorgeyev, A. V. Kolyaninskiy, V. A. Ul'yanova, and O. L. Masliyeva, Trudy nauch.-issled. in-ta ptitsevodstva, Vol XX, 1948 (on cover: 1948), p. 233-63, - Bibliog: 12 items

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

SERGEYEV, A. A.

"Carotene in Certain Wild Plants of Yakutia," Priroda, No 12, p 101, 1954

Translation T 173 R, 8 Feb 55

SERGEYEV, A.A., inzh.; SHISHKIN, K.P., inzh.

Breakdown of a BK-405 tower crane. Elek.sta. 29 no.1:69-70
Ja '58. (MIRA 11:2)
(Cranes, derricks, etc.)

SERGEYEV, A.A.

Intensifying the industrial-safety inspection. Bezop. truda v prom.
4 no. 5:35-36 My '60. (MIRA 14:5)
(Industrial safety)

KAS'YANOV, A.V.; IVANOV, V.I.; KHIL'KOVSKAYA, Ye.P.; SERGEYEV, A.A.;
FILIPPOVA, L.S., red.; GROMOV, Yu.V., tekhn.red.

[Heat exchange systems of series N60 a.c.electric locomotives]
Teploobmennye ustroistva elektrovozov peremennogo toka serii
N60. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei
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(Electric locomotives--Cooling)

MOGILEVSKIY, D.I.; BUDZIS, V.A.; SERGEYEV, A.A.

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1-4 0 '63. (MIRA 16:12)

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inzh., red.

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kotel'shchika-montazhnika. Moskva, Mashgiz, 1963. 206 p.
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USSR/Mining Methods
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Jul 48

"Review of P. M. Ipatov and P. D. Lunevskiy's Book, 'Systems for Underground Mining of Deposits of Nonferrous Metals, and Gold,' A. V. Baronkov, A. V. Kovazhenkov, A. A. Sergeyev, Engineers, 3/4 p

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General description of practical experience intended as manual for engineers, technical workers, mining institutions, etc. It is valuable as it describes means for selecting optimum exploitation methods for various geological and mining conditions, and aids engineers and technicians in selecting mining systems. It lacks proper evaluation of systems used under certain conditions. Data given is inaccurate.

PA 33/49785

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for Depletion of Minerals in Ore-Mining Enterprises," *Eksploata i Otkrytiya*
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(Rules for Safety Measures, When Working with Explosives). 2nd ed. Edited by A. A. Sergeev, et al. Moscow:
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SERGEYEV, A.A., redaktor; POKROVSKIY, L.A., redaktor; SHUSTOVA, V.M.,
redaktor; PARTSEVSKIY, V.N., redaktor; MIKHAYLOVA, V.V., tekhnicheskii redaktor

[Unified safety rules for mining metalliferous, non-metallic, and placer deposits by the underground method] *Edinye pravila bezopasnosti pri razrabotke rudnykh, nerudnykh i rossypnykh mestorozhdenii podzemnym sposobom.* Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1955. 319 p. (MIRA 8:6)

1. Russia (1923- U.S.S.R.) Sovet Ministrov. Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.
(Mining engineering--Safety measures)

SERGEYEV, A.A., otvetstvennyy redaktor; D'YAKONOVA, T.Ya., vedushchiy redaktor; SHIKIN, S.T., tekhnicheskii redaktor

[Safety regulations in petroleum fields and ozocerite mines]
Pravila bezopasnosti v neftiannykh i ozokeritovykh shakhtakh;
obiazatel'ny dlia vsekh ministerstv, vedomstv, organizatsii i
predpriatii, vedushchikh razrabotku neftiannykh i ozokeritovykh
mestorozhdenii podzemnym sposobom. Moskva, Gos. nauchno-tekhn.
izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 279 p. (MLRA 9:9)

1. Russia (1923- U.S.S.R.) Ministerstvo neftyanoi promyshlennosti
(Oil fields--Safety measures) (Ozocerite)

SERGEYEV, A.A., kandidat tekhnicheskikh nauk.

The economic significance of ore losses in mines. Gor.zhur.no.4:
7-11 Ap '56. (MIRA 9:7)

(Mining industry and finance)

SERGEYEV, A.A.

STUGAREV, A.S., kandidat tekhnicheskikh nauk.; SERGEYEV, A.A., kandidat tekhnicheskikh nauk.

Efficient methods of selective mineral deposit mining. Gor. zhur.
no.1:1-7 Ja '57. (MLRA 10:4)

1. Gosgortekhnadzor SSSR.
(Mining engineering)

SERGEYEV, A.A., kandidat tekhnicheskikh nauk.

Increase blasting safety. Bezop.truda v pron. 1 no.8:3-4

Ag '57.

(MLRA 10:8)

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MEL'NIKOV, N.V.; BRONNIKOV, D.M.; YENIKHEYEV, N.B.; NAZARCHIK, A.F.;
TERPOGOSOV, Z.A.; BARSUKOV, F.A.; SERGEYEV, A.A.; PROTOPOPOV, D.D.;
SUDOPLATOV, A.P.; BARON, L.I.; MAN'KOVSKIY, G.I.; POMORTSEV, A.D.;
DEMIDYUK, G.P.; KAPITANOV, T.V.; MOLCHANOV, P.V.; MAKSIMOVA, Ye.P.;
GRIBIN, A.A.; BARONENKOV, A.V.; SINDAROVSKIY, N.S.; BOGOMOLOV, V.I.;
KHODOV, L.V.; MOSKAL'KOV, Ye.P.

Aleksandr Vasil'evich Kovazhenkov; an obituary. Gor. zhur. no.12:
72 D '57. (MIRA 11:1)

(Kovazhenkov, Aleksandr Vasil'evich, d. 1957)

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[Standard safety regulations for blasting operations] Edinye pravila bezopasnosti pri vzryvnykh rabotakh. Izd.2. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 318 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru. (Mining engineering--Safety measures)

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Donets Basin coal mines" by V.A. Skogorev. Reviewed by A. Sergeev).
Mast.ugl. 8 no.1:30 Ja '59. (MIRA 12:3)
(Donets Basin--Coal mines and mining)
(Skogorev, V.A.)

AGOSHKOV, M.I., prof.; MUKHIN, M.Ye., kand.tekhn.nauk; NAZARCHIK, A.F.,
kand.tekhn.nauk; MAMSUROV, L.A., gornyy inzh.; RAFIYENKO, D.I.,
gornyy inzh.; SERGEYEV, A.A., otv.red.; SLAVOROSOV, A.Kh., red.
izd-va; BOLDYREVA, Z.A., tekhn.red.

[Systems of mining vein deposits] Sistemy razrabotki zhil'nykh
mestorozhdenii. Pod obshchei red. M.I.Agoshkova. Moskva, Gos.
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1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining engineering) (Ore deposits)

SERGEYEV, A.A., kand. tekhn. nauk

[Basic instructions for calculating losses and impoverishment of minerals in working ore, nonmetallic and placer deposits of the Kazakh S.S.R.] Osnovnye ukazaniia po uchetu poter' i razubozhivaniia poleznykh iskopaemykh pri razrabotke rudnykh, nerudnykh i rossypnykh mestorozhdenii Kazakhskoi SSR. Alma-Ata, 1960. 31 p. (MIRA 15:2)

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SERGEYEV, A., inzh.

"Detonit." Mast. ugl. 9 no. 6:19 Je '60. (MIRA 13:7)
(Coal mines and mining--Explosives)

SERGEYEV, A.

Uncovered potentialities. Mast.ugl. 9 no.2:25 F '60.

(MIRA 13:7)

(Donets Basin--Coal mines and mining--Labor productivity)

SERGEYEV, A.

"Coal resources of Khakass and potentials of their development"
by L.V.Semenov. Reviewed by A. Sergeev. Mast.ugl. 9 no.7:28
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(Khakass Autonomous Province--Coal mines and mining)
(Semenov, L.V.)

SERGEYEV, A.A., kand.tekhn.nauk

Accounting for losses and depletion of minerals being mined. Gor.
zhur. no. 1:11-15 Ja '61. (MIRA 15:1)
(Mines and mineral resources--Accounting)

SERGEYEV, Aleksandr Andrianovich, doktor tekhn. nauk; YEROKHIN, G.M.,
red.

[Efficient utilization of ore deposits] Ratsional'noe is-
pol'zovanie rudnykh mestorozhdenii. Moskva, Izd-vo "Metallurgiya," 1964. 247 p. (MIRA 17:6)

PHASE I BOOK EXPLOITATION

SOV/6149

Sergeyev, Aleksandr Aledsandrovich

Ocherki po istorii aviatsionnoy meditsiny (Essays on the History of Aviation Medicine). Moscow, Izd-vo AN SSSR, 1962. 297 p. Errata slip inserted. 1700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut fiziologii im. I. Pavlova.

Resp. Ed. (Title page): A. P. Popov; Ed. of Publishing House: Yu. B. Vakhtin; Tech. Ed.: T. T. Bochever.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book contains the history of Soviet aviation medicine and partly of international aviation medicine. The development of scientific ideas in the main fields of Soviet and foreign aviation medicine is given in sequence and the main problems solved abroad are examined. The material given includes the period from

Card 1/6 2

Essays on the History of Aviation Medicine

SOV/6149

the second half of the nineteenth century to the end of World War II. A bibliography of Soviet aviation medicine, covering the period up to 1950, is given at the end of the book. The results about which Soviet aviation can be proudest the author considers to be the work of Strel'tsov (pp. 114, 116) in the field of oxygen starvation (altitude sickness) and investigations of mountain sickness during 9 high mountain expeditions, made by Sirotinin (pp. 135, 137), in which special attention was given to changes in blood reaction (alkalosis in blood at high altitude and acidosis at moderate heights). To acidify the organism Sirotinin suggested the use of citric acid and obtained satisfactory results.

TABLE OF CONTENTS:

Foreword	3
I. Period Preceding the Rise of Aviation Medicine	5

Card 2/02

S/130/63/000/004/004/004
A006/A101

AUTHORS: Tulin, N. A., Chief of Shop, Pozdeyev, N. P., Deputy Chief of Shop,
Yartsev, M. Ya., Senior Electrometallurgist, Sergeyev, A. B.,
Senior Master, Zhivichkin, L. A., Electrician, Gayduk, Yu. A.,
Mechanic

TITLE: Assimilation of the OKB -571-B (OKB-571-B) vacuum induction furnace

PERIODICAL: Metallurg, no. 4, 1963, 24 - 26

TEXT: A schematic diagram of the OKB-571-B vacuum induction furnace is given. During industrial tests made with the furnace several deficiencies were revealed and the following improvements were achieved. The inductor was insulated with glass strip soaked with silico-organic varnish. It consists of three sections. The central and lower sections operate continuously. Its multi-coil design and reliable insulation proved satisfactory. To use more efficiently the upper inductor section the tilting mechanism of the furnace was redesigned making it possible to incline the crucible through $40 - 45^\circ$ to the side opposite to the

Card 1/3

S/130/63/000/004/004/004
A006/A101

Assimilation of the...

discharge. The charge mechanism was developed with electro-mechanical drive, the chain was replaced by a single-rope drum. A new mechanism for measuring the temperature and tanking-off samples consists of two compact stainless steel rods, 32/25 mm in diameter, placed into a hermetic pipe shell, 160 mm in diameter, which is connected with the melting space through a vacuum seal. The rods are moved by driving rolls without rotating around the axis. Graphite blocks are mounted on the threaded rod ends, having borings for quartz tips for the thermocouples and the sample-taking devices. The new vacuum sealing devices represent a simple lever system preventing the breaking of parts during different pressure. A new teeming funnel with a lifting mechanism assures constant trajectory of the jet during teeming. The standards of inflow are 100 l. μ . Hg/sec for the melting chamber, and 30 l. μ . Hg/sec for the other chambers. Instead of sealing boxes, vacuum hose sections are used, operating by torsion and preheating the furnace shell to 60 - 70°C with hot water flowing through the cooling system of the furnace. As a result, the air evacuation time was reduced by a factor of 1.5. The inflow in the cold furnace was 60 - 100 l. μ . Hg/sec, and residual pressure at operational temperatures was 8 - 20 μ Hg. There are 7 figures.

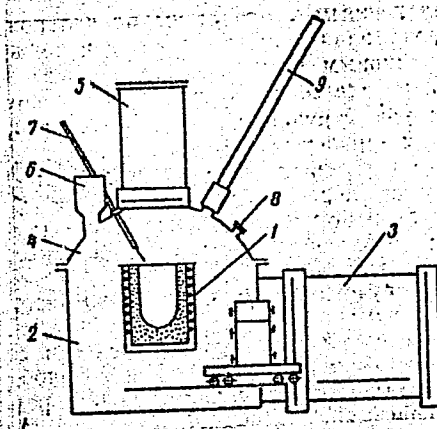
ASSOCIATION: ChMZ

Card 2/3

Assimilation of the...

S/130/63/000/004/004/004
A006/A101

Figure 1. Schematic diagram of an induction vacuum furnace, type OKB-571-B
Legend: 1 - crucible with three-section inductor; 2 - melting chamber; 3 - chamber for the supply and removal of molds; 4 - cover; 5 - charging device; 6 - portioning device; 7 - crowbar for jolting the charge; 8 - operational apertures; 9 - temperature measuring device.



Card 3/3

4
SERGEYEV, A. B.

S/133/63/000/004/002/011
A054/A126

AUTHORS: Kapel'nitskiy, V. G., Shved, F. I., Yartsev, M. A., Tulin, N. A.,
Pozdeyev, N. P., Sergeyev, A. B., Merenishcheva, I. I., Kalinina,
Z. M., Pozdnyakov, M. V.

TITLE: Melting of steel and alloys in vacuum furnaces

PERIODICAL: Stal', no. 4, 1963, 325 - 328

TEXT: IX15 (ShKh15) and X20H80 (Kh20N80) grade steels often display
spotty liquation, bright streaks, and bright skins. Tests for eliminating these
defects were carried out by V. N. Kuzovtsov, R. F. Maksutov, G. Ye. Mysina,
A. V. Shelgayeva, L. A. Zhivichkin, Yu. A. Gayduk, V. S. Galyan, D. A. Soskov,
I. I. Khmelev, G. I. Parabina et al. To prevent the rotating movement of the
liquid metal, the circuit scheme was modified (under the control of I. S. Pinchuk,
Candidate of Technical Sciences) and upon the suggestion of the NIIM (Chelya-
binskiy nauchno-issledovatel'skiy institut metallurgii/Chelyabinsk Scientific
Research Institute of Metallurgy) all ferromagnetic parts were eliminated from
the electric system which then was redesigned on a bifilar-coaxial scheme. In

Card 1/3